XM-3040

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model

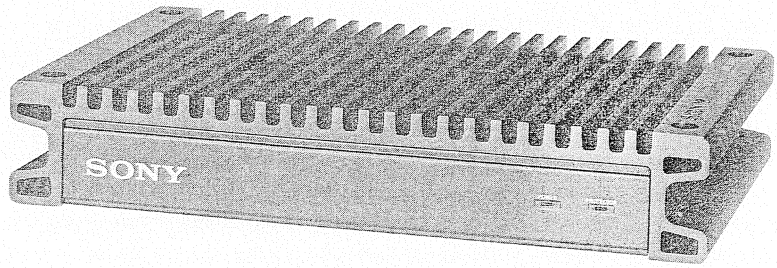


PHOTO : AEP model

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION 30 watts per channel minimum continuous average power into 4 ohms, both channels driven from 20–20,000 Hz with no more than 0.08% total harmonic distortion per Car Stereo Ad Hoc Committee standards.

Other Specifications

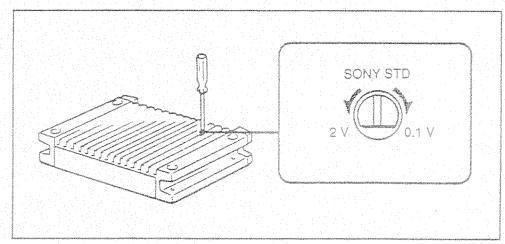
Power supply system
Pulse power supply circuitry
Input Car stereo input (phono jack)
Outputs Speaker outputs
Speaker impedance
2–8 ohms
Maximum power output
4 ch: 55 watts x 4 at 4 ohms
3 ch: 55 watts x 2 + 120 watts at 4 ohms
2 ch: 120 watts x 2 at 4 ohms
Frequency response
8 Hz–100 kHz $^{+0}_{-3}$ dB (4 ohms)
Harmonic distortion
0.005%
Input level adjustment range
0.1–2 V

Power requirements
12 V DC car battery (negative ground)
Current drain 28 A (at rated output)
Input remote current
5 mA
Dimensions Approx. 310 × 55 × 200 mm (w/h/d) (12 1/4 × 2 1/4 × 7 7/8 inches)
Weight Approx. 3.5 kg (7 lb. 11 oz.)
Accessories supplied
Mounting hardware (1 set)

Design and specifications subject to change without notice.

Level Adjustment Control

The input level can be varied with this control. Use it to adjust the input sound level when using source equipment of other manufacturers. Be sure to set the control to SONY STD if the unit is connected to a SONY car stereo. Turn it to 0.1 V when the input level of the cassette car stereo or CD player seems low.



MICROFILM

STEREO POWER AMPLIFIER

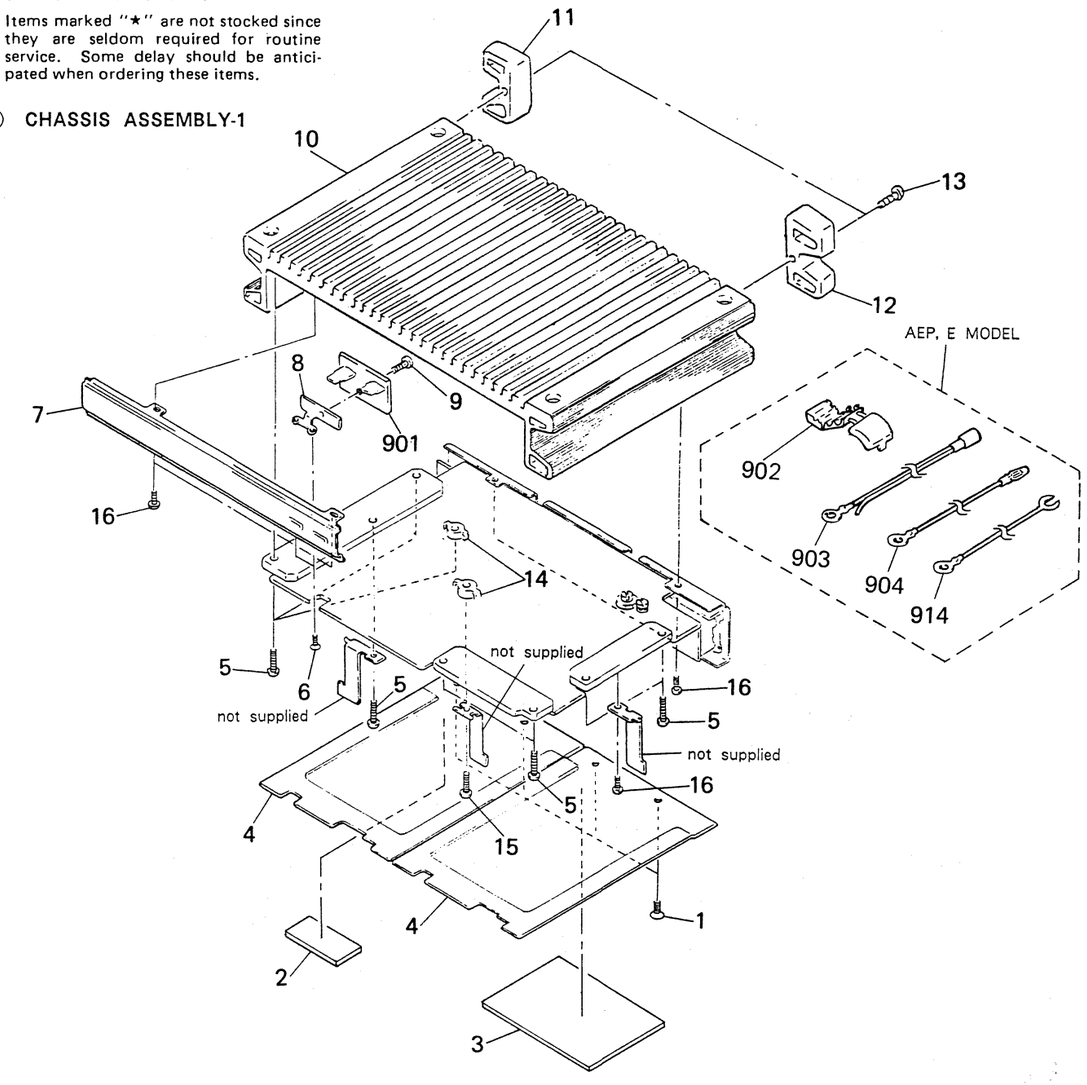
SONY®

EXPLODED VIEWS

NOTE:

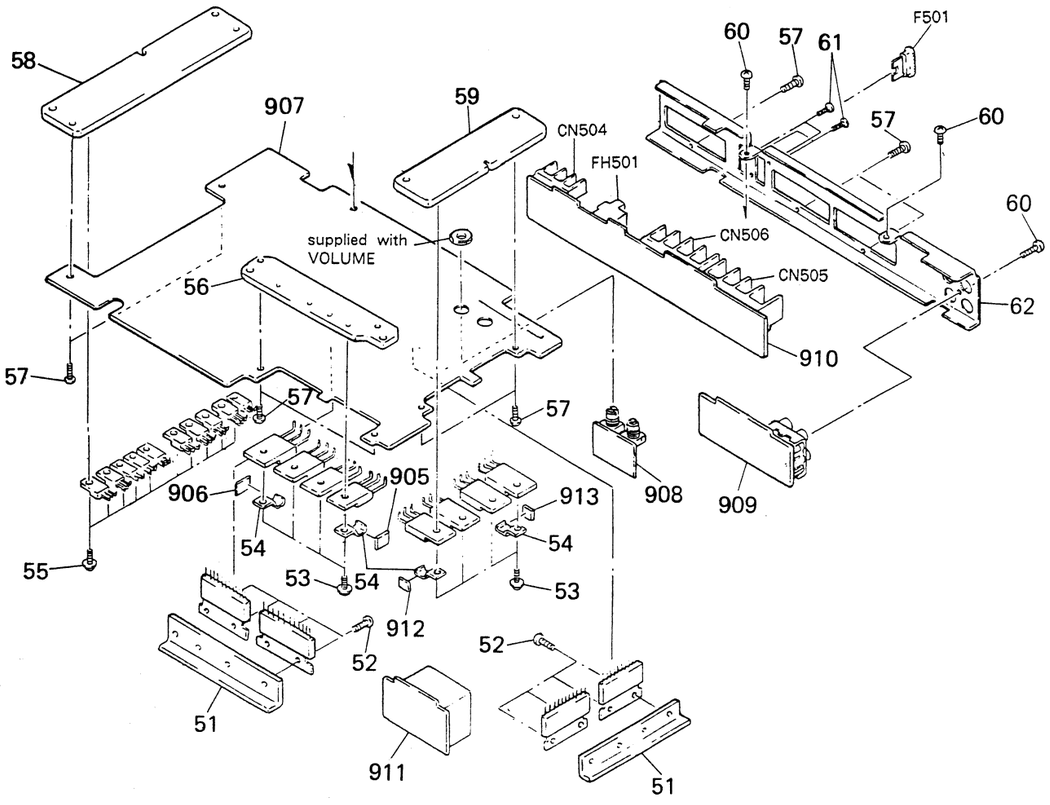
- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts' Color

(1) CHASSIS ASSEMBLY-1



No.	Part No.	Description	Remarks
1	7-685-232-19	SCREW +KTP 2.6X5 TYPE2 SLIT	
2	*3-395-805-01	(US, AEP, E).....LABEL, MODEL NUMBER	
	*3-395-804-01	(Canadian).....LABEL, MODEL NUMBER	
3	*3-395-898-01	LABEL (INDICATION)	
4	*3-395-842-01	COVER (BOTTOM)	
5	7-685-135-19	SCREW +BTP 2.6X10 TYPE2 N-S	
6	7-627-450-28	+K 1.7X2	
7	3-395-841-01	(US,Canadian)...PANEL (FRONT)	
	3-395-841-11	(AEP,E).....PANEL (FRONT)	
8	*3-395-827-01	BRACKET (LED)	
9	7-685-104-21	+P 2X6	
10	*3-395-840-01	HEAT SINK	
11	*3-395-816-01	PROTECTOR (LEFT)	
12	*3-395-817-01	PROTECTOR (RIGHT)	
13	7-685-550-19	SCREW +BTP 3X16 TYPE2 N-S	
14	*3-395-832-01	SPACER	
15	7-685-536-19	SCREW +BTP 2.6X12 TYPE2 N-S	
16	7-685-133-19	SCREW +P 2.6X6 TYPE2 SLIT	
901	*1-632-869-11	PC BOARD, LED	
902	1-535-362-00	(AEP,E)...CONNECTOR (EXTENSION)	
903	1-574-018-11	(AEP,E)...CORD (WITH TERMINAL)(+12V)	
904	1-575-090-11	(AEP,E)...CORD (WITH TERMINAL)(REM)	
914	1-575-060-11	(AEP,E)...CORD (WITH TERMINAL)(GND)	

(2) CHASSIS ASSEMBLY-2



No.	Part No.	Description	Remarks
51	*3-396-117-01	HEAT SINK (SUB D)	
52	7-685-144-19	SCREW +P 3X5 TYPE2 NON-SLIT	
53	7-628-254-30	+PSW, 2.6X10	
54	*3-396-106-01	BRACKET (TR)	
55	7-628-254-20	+PSW, 2.6X8	
56	*3-395-846-01	HEAT SINK (SUB B)	
57	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S	
58	*3-395-845-01	HEAT SINK (SUB A)	
59	*3-395-847-01	HEAT SINK (SUB C)	
60	7-685-646-79	SCREW +BTP 3X8 TYPE2 N-S	
61	7-685-104-19	SCREW +P 2X6 TYPE2 SLIT	
62	*3-395-843-11	PANEL (B)	
905	*1-633-334-11	PC BOARD, TR-3	
906	*1-633-335-11	PC BOARD, TR-4	
907	*A-3216-981-A	PC BOARD ASSY, MAIN	
908	*1-632-870-11	PC BOARD, VOL	
909	*1-632-866-11	PC BOARD, INPUT	
910	*1-632-865-11	PC BOARD, OUTPUT	
911	*1-632-867-11	PC BOARD, RELAY	
912	*1-632-868-11	PC BOARD, TR-1	
913	*1-633-333-11	PC BOARD, TR-2	
CN504	1-537-251-11	TERMINAL BOARD (3P)	
CN505	1-537-252-11	TERMINAL BOARD (4P)(SPEAKER OUT A-B)	
CN506	1-537-252-11	TERMINAL BOARD (4P)(SPEAKER OUT C-D)	
F501	1-532-947-11	FUSE (BRADE TYPE) (AUTO FUSE)	
FH501	1-533-226-11	HOLDER, FUSE (BRAID)	

PRINTED WIRING BOARD

• See page 10 for Semiconductors Lead Layout

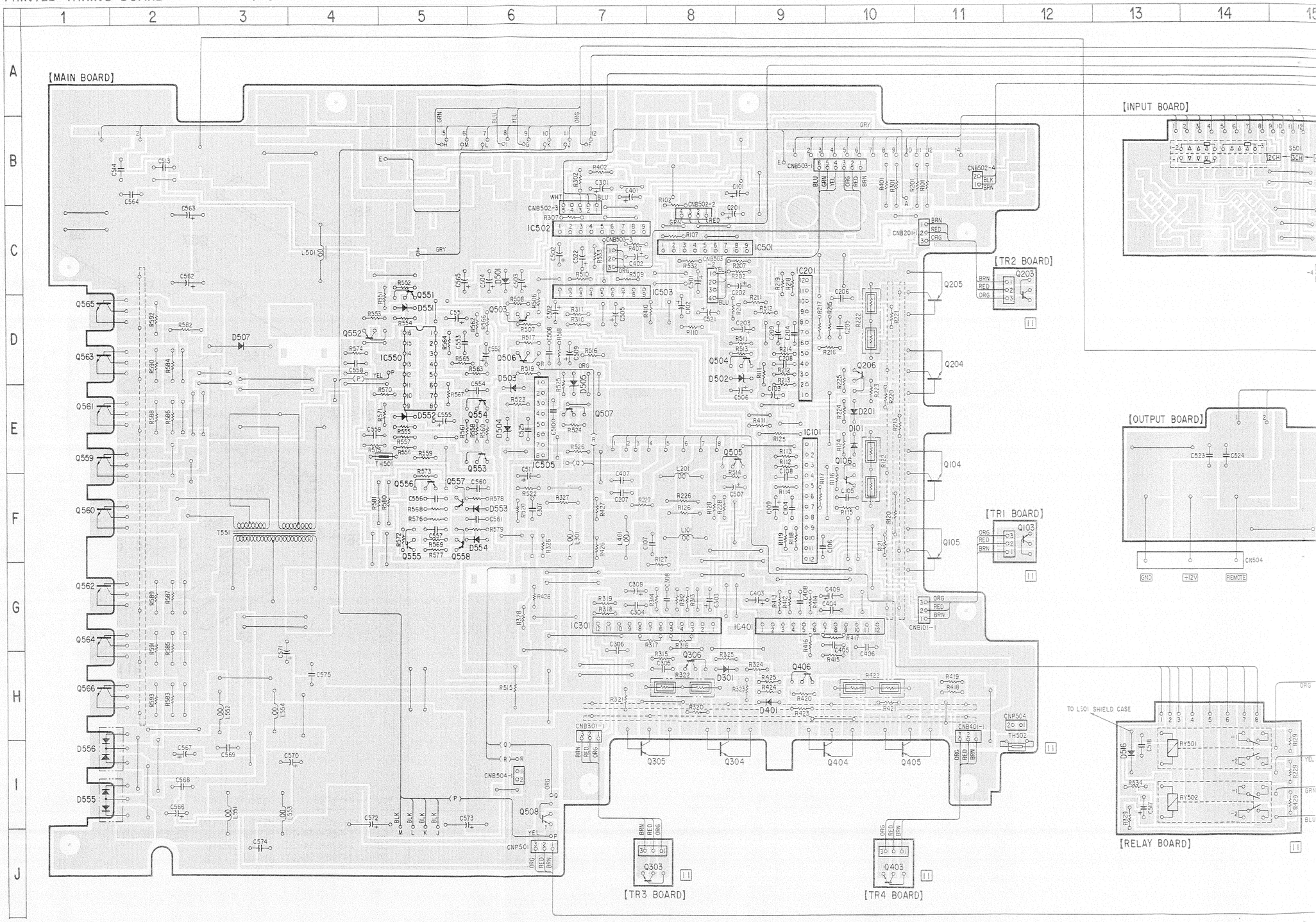
• SEMICONDUCTOR LOCATION

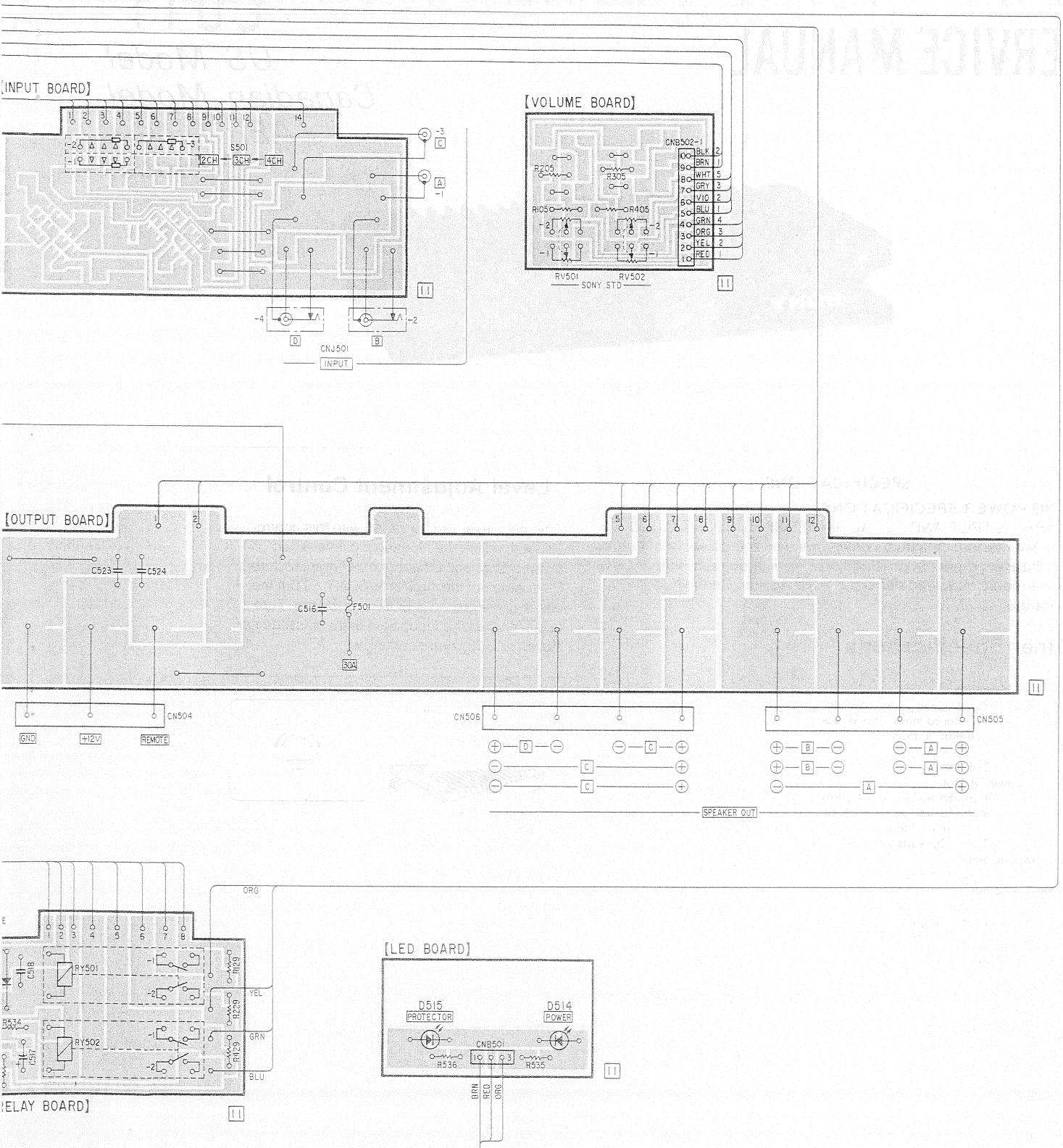
Ref. No.	Location	Ref. No.	Location
IC101	F-9	Q553	E-6
IC201	D-9	Q554	E-6
IC301	G-7	Q555	F-5
IC401	G-9	Q556	F-5
IC501	C-8	Q557	F-5
IC502	C-7	Q558	F-5
IC503	C-7	Q559	E-1
IC505	E-6	Q560	F-1
IC550	D-5	Q561	E-1
		Q562	G-1
Q103	F-12	Q563	D-1
Q104	E-11	Q564	G-1
Q105	F-11	Q565	D-1
Q106	F-10	Q566	H-1
Q203	C-12		
Q204	D-11	D101	E-10
Q205	D-11	D201	E-10
Q206	D-10	D301	H-8
Q303	J-8	D401	H-9
Q304	I-8	D501	C-6
Q305	I-8	D502	D-9
Q306	H-8	D503	E-6
Q401	B-18	D504	E-6
Q402	B-8	D505	E-7
Q403	J-10	D507	D-3
Q404	I-10	D514	I-17
Q405	I-10	D515	I-16
Q406	H-9	D516	I-13
Q503	D-6	D551	D-5
Q504	D-9	D552	E-5
Q505	E-8	D553	F-6
Q506	D-6	D554	F-6
Q507	E-7	D555	I-1
Q508	I-6	D556	I-1
Q551	C-5		
Q552	D-4		

Note:

• O— : parts extracted from the component side.

• ▒▒ : Pattern on the side which is seen.




[INPUT BOARD]
S501
12CH
3CH
4CH
CNJ501
INPUT
[VOLUME BOARD]
CNB502-1
BLK
BRN
WHT
GRY
VIO
BLU
GRN
ORG
YEL
RED
R205
R305
R105
R405
RV501
RV502
SONY STD
[OUTPUT BOARD]
C523
C524
C516
F501
30A
CN504
GND
+12V
REMOTE
CN506
CN505
SPEAKER OUT
[RELAY BOARD]
RY501
RY502
C518
C517
R534
R529
[LED BOARD]
D515
PROTECTOR
D514
POWER
CNB501
R536
R535
BRN
RED
ORG

【MAIN BOARD】

【INPUT BOARD】

【OUTPUT BOARD (1/2)】

【RELAY BOARD】

【TR1 BOARD】

【TR3 BOARD】

【VOLUME BOARD (1/2)】

IC101 DRIVE AMP

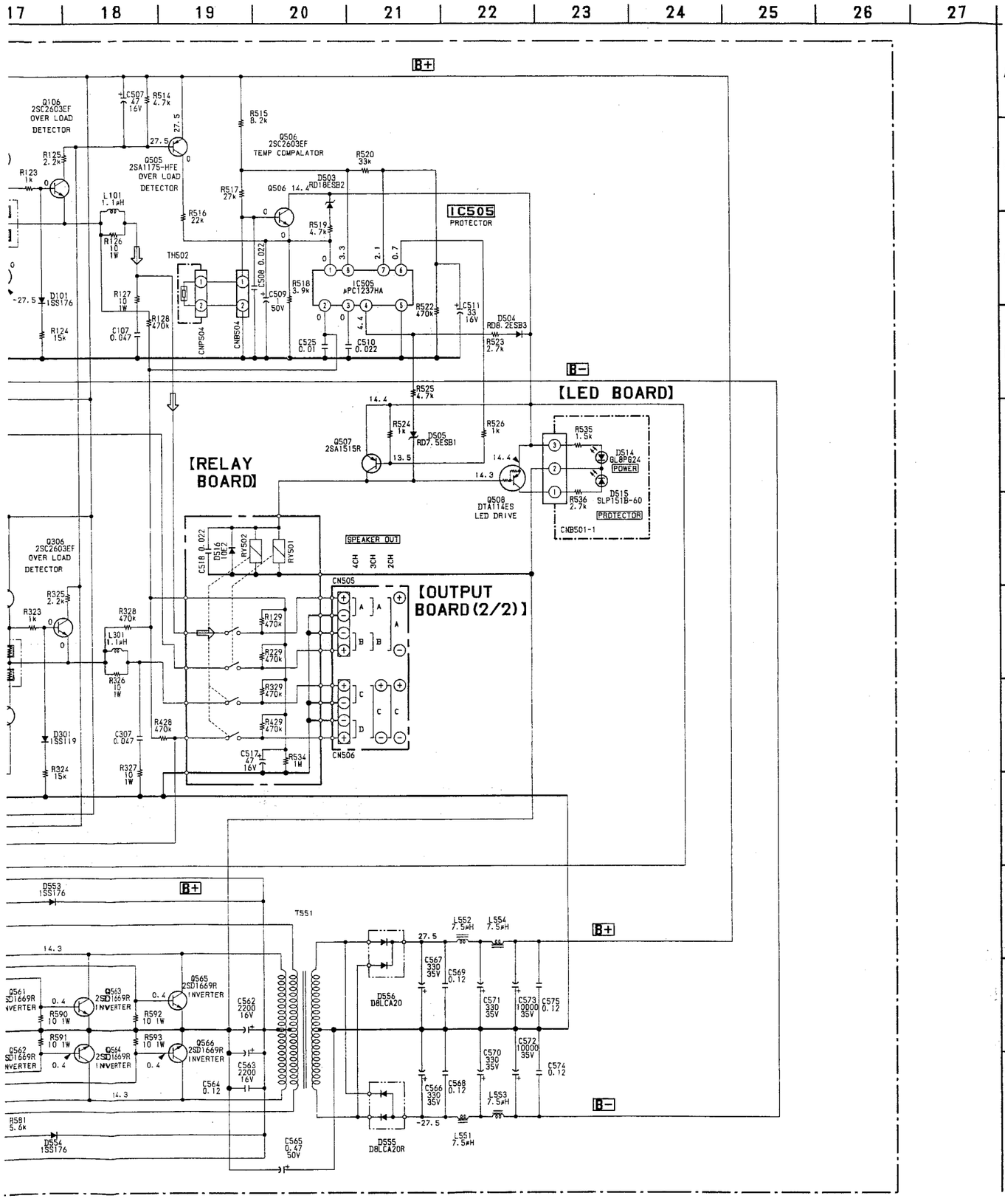
IC501

IC502

IC503

IC301 DRIVE AMP

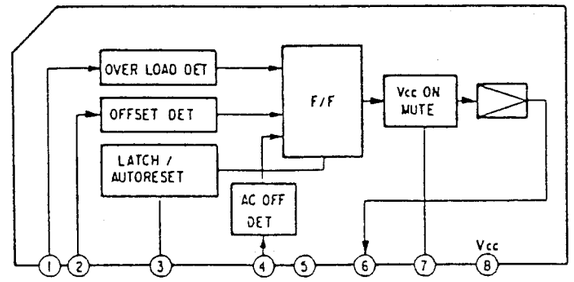
IC550 DC-DC CONVERTER DRIVER



IC BLOCK DIAGRAM

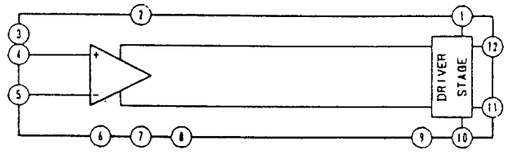
IC505

μPC1237HA



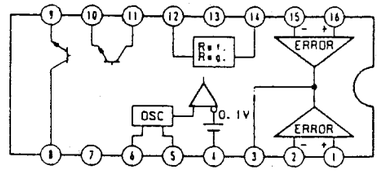
IC101, 201, 301, 401

μPC1270H



IC550

μPC494C



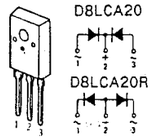
Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- Components for right channel have same values as for left channel. Reference numbers are coded from 200, 400
- : nonflammable resistor.
- B+ : B+ Line
- B− : B− Line
- Power voltage is dc 14.4V and fed with regulated dc power supply from external power voltage jack.
- no mark : 4CH
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : L-CH (A)

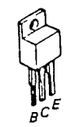
Semiconductors Lead Layout

DTA114ES

D8LCA20R
D8LCA20



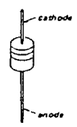
2SA1670-Y
2SC4385-Y



GL8PG24
SLP151B-60

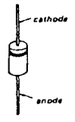
2SC945-P

RD6.2ES-B1
RD7.5ES-B1
RD8.2ES-B3
RD18ES-B2
RD22ES-B1
1SS119



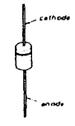
2SA1175-HFE
2SA1515R
2SC2603-EF

10E2

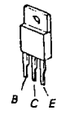


2SA1358-Y

30D4



2SC3852
2SD1669-R



ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

Ref.No.	Part No.	Description
901	*1-632-869-11	PC BOARD, LED
902	1-535-362-00	(AEP,E)...CONNECTOR (EXTENSION)
903	1-574-018-11	(AEP,E)...CORD (WITH TERMINAL)(+12V)
904	1-575-090-11	(AEP,E)...CORD (WITH TERMINAL)(REM)
905	*1-633-334-11	PC BOARD, TR-3
906	*1-633-335-11	PC BOARD, TR-4
907	*A-3216-981-A	PC BOARD ASSY, MAIN
908	*1-632-870-11	PC BOARD, VOL
909	*1-632-866-11	PC BOARD, INPUT
910	*1-632-865-11	PC BOARD, OUTPUT
911	*1-632-867-11	PC BOARD, RELAY
912	*1-632-868-11	PC BOARD, TR-1
913	*1-633-333-11	PC BOARD, TR-2
914	1-575-060-11	(AEP,E)....CORD (WITH TERMINAL)(GND)
C101	1-123-356-00	ELECT 10MF 20% 16V
C102	1-123-356-00	ELECT 10MF 20% 16V
C103	1-124-925-11	ELECT 2.2MF 20% 50V
C104	1-161-264-11	CERAMIC 27PF 5% 50V
C105	1-162-191-31	CERAMIC 2.2PF 10% 50V
C106	1-136-161-00	FILM 0.047MF 5% 50V
C107	1-136-161-00	FILM 0.047MF 5% 50V
C108	1-102-110-00	CERAMIC 220PF 10% 50V
C109	1-124-477-11	ELECT 47MF 20% 16V
C201	1-123-356-00	ELECT 10MF 20% 16V
C202	1-123-356-00	ELECT 10MF 20% 16V
C203	1-124-925-11	ELECT 2.2MF 20% 50V
C204	1-161-264-11	CERAMIC 27PF 5% 50V
C205	1-162-191-31	CERAMIC 2.2PF 10% 50V
C206	1-136-161-00	FILM 0.047MF 5% 50V
C207	1-136-161-00	FILM 0.047MF 5% 50V
C208	1-102-110-00	CERAMIC 220PF 10% 50V
C209	1-124-477-11	ELECT 47MF 20% 16V
C301	1-123-356-00	ELECT 10MF 20% 16V
C302	1-123-356-00	ELECT 10MF 20% 16V
C303	1-124-925-11	ELECT 2.2MF 20% 50V
C304	1-161-264-11	CERAMIC 27PF 5% 50V
C305	1-162-191-31	CERAMIC 2.2PF 10% 50V
C306	1-136-161-00	FILM 0.047MF 5% 50V
C307	1-136-161-00	FILM 0.047MF 5% 50V
C308	1-102-110-00	CERAMIC 220PF 10% 50V
C309	1-124-477-11	ELECT 47MF 20% 16V
C401	1-123-356-00	ELECT 10MF 20% 16V
C402	1-123-356-00	ELECT 10MF 20% 16V
C403	1-124-925-11	ELECT 2.2MF 20% 50V
C404	1-161-264-11	CERAMIC 27PF 5% 50V
C405	1-162-191-31	CERAMIC 2.2PF 10% 50V
C406	1-136-161-00	FILM 0.047MF 5% 50V

Ref.No.	Part No.	Description
C407	1-136-161-00	FILM 0.047MF 5% 50V
C408	1-102-110-00	CERAMIC 220PF 10% 50V
C409	1-124-477-11	ELECT 47MF 20% 16V
C501	1-123-356-00	ELECT 10MF 20% 16V
C502	1-123-356-00	ELECT 10MF 20% 16V
C503	1-126-101-11	ELECT 100MF 20% 16V
C504	1-123-333-00	ELECT 100MF 20% 25V
C505	1-126-101-11	ELECT 100MF 20% 16V
C506	1-123-333-00	ELECT 100MF 20% 25V
C507	1-124-477-11	ELECT 47MF 20% 16V
C508	1-136-157-00	FILM 0.022MF 5% 50V
C509	1-124-791-11	ELECT 1MF 20% 50V
C510	1-136-157-00	FILM 0.022MF 5% 50V
C511	1-124-963-11	ELECT 33MF 20% 16V
C513	1-136-153-00	FILM 0.01MF 5% 50V
C514	1-136-153-00	FILM 0.01MF 5% 50V
C516	1-130-475-00	FILM 0.0022MF 5% 50V
C517	1-124-477-11	ELECT 47MF 20% 16V
C518	1-136-157-00	FILM 0.022MF 5% 50V
C521	1-123-356-00	ELECT 10MF 20% 16V
C523	1-136-738-11	FILM 0.01MF 5% 50V
C522	1-123-356-00	ELECT 10MF 20% 16V
C524	1-136-738-11	FILM 0.01MF 5% 50V
C525	1-136-153-00	FILM 0.01MF 5% 50V
C551	1-124-120-11	ELECT 220MF 20% 16V
C552	1-124-120-11	ELECT 220MF 20% 16V
C553	1-136-837-11	FILM 0.12MF 5% 50V
C554	1-108-792-11	MYLAR 0.001MF 5% 50V
C555	1-126-101-11	ELECT 100MF 20% 16V
C556	1-102-106-00	CERAMIC 100PF 10% 50V
C557	1-102-106-00	CERAMIC 100PF 10% 50V
C558	1-102-106-00	CERAMIC 100PF 10% 50V
C559	1-102-106-00	CERAMIC 100PF 10% 50V
C560	1-102-115-00	CERAMIC 560PF 10% 50V
C561	1-102-115-00	CERAMIC 560PF 10% 50V
C562	1-124-343-00	ELECT 2200MF 20% 16V
C563	1-124-343-00	ELECT 2200MF 20% 16V
C564	1-136-837-11	FILM 0.12MF 5% 50V
C565	1-124-902-00	ELECT 0.47MF 20% 50V
C566	1-123-347-11	ELECT 330MF 20% 35V
C567	1-123-347-11	ELECT 330MF 20% 35V
C568	1-136-837-11	FILM 0.12MF 5% 50V
C569	1-136-837-11	FILM 0.12MF 5% 50V
C570	1-123-347-11	ELECT 330MF 20% 35V
C571	1-123-347-11	ELECT 330MF 20% 35V

Ref.No.	Part No.	Description
C572	1-126-981-11	ELECT 10000MF 20% 35V
C573	1-126-981-11	ELECT 10000MF 20% 35V
C574	1-136-837-11	FILM 0.12MF 5% 50V
C575	1-136-837-11	FILM 0.12MF 5% 50V
CN504	1-537-251-11	TERMINAL BOARD (3P)
CN505	1-537-252-11	TERMINAL BOARD (4P)(SPEAKER OUT A-B)
CN506	1-537-252-11	TERMINAL BOARD (4P)(SPEAKER OUT C-D)
CNJ501	1-569-110-11	JACK, PIN (WITH SIWTCH) 4P (INPUT)
CNP501	*1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P
D101	8-719-911-19	DIODE 1SS119
D201	8-719-911-19	DIODE 1SS119
D301	8-719-911-19	DIODE 1SS119
D401	8-719-911-19	DIODE 1SS119
D501	8-719-110-49	DIODE RD18ESB2
D502	8-719-110-49	DIODE RD18ESB2
D503	8-719-110-49	DIODE RD18ESB2
D504	8-719-110-09	DIODE RD8.2ESB3
D505	8-719-110-02	DIODE RD7.5ESB1
D507	8-719-230-04	DIODE 30D4
D514	8-719-938-11	DIODE SLP151B-60 (PROTECTOR)
D515	8-719-979-90	DIODE GL8PG24 (POWER)
D516	8-719-200-02	DIODE 10E2
D551	8-719-109-92	DIODE RD6.2ESB1
D552	8-719-110-56	DIODE RD22ESB1
D553	8-719-911-19	DIODE 1SS119
D554	8-719-911-19	DIODE 1SS119
D555	8-719-500-42	DIODE D8LCA20R
D556	8-719-500-41	DIODE D8LCA20
F501	1-532-947-11	FUSE (BRADE TYPE) (AUTO FUSE)
FH501	1-533-226-11	HOLDER, FUSE (BRAID)
IC101	8-759-148-11	IC UPC1270H
IC201	8-759-148-11	IC UPC1270H
IC301	8-759-148-11	IC UPC1270H
IC401	8-759-148-11	IC UPC1270H
IC501	8-759-112-93	IC UPC4570HA-1
IC502	8-759-112-93	IC UPC4570HA-1
IC503	8-759-112-93	IC UPC4570HA-1
IC505	8-759-111-68	IC UPC1237HA
IC550	8-759-103-87	IC UPC494C
L101	*1-428-086-11	COIL, AIR-CORE
L201	*1-428-086-11	COIL, AIR-CORE
L301	*1-428-086-11	COIL, AIR-CORE
L401	*1-428-086-11	COIL, AIR-CORE
L501	1-424-303-11	COIL, CHOKE 0.26MMH
L551	1-424-112-11	COIL, CHOKE 7.5UH
L552	1-424-112-11	COIL, CHOKE 7.5UH
L553	1-424-112-11	COIL, CHOKE 7.5UH
L554	1-424-112-11	COIL, CHOKE 7.5UH
Q103	8-729-194-57	TRANSISTOR 2SC945-P
Q104	8-729-321-29	TRANSISTOR 2SC4385-Y
Q105	8-729-321-26	TRANSISTOR 2SA1670-Y
Q106	8-729-620-05	TRANSISTOR 2SC2603-EF
Q203	8-729-194-57	TRANSISTOR 2SC945-P
Q204	8-729-321-29	TRANSISTOR 2SC4385-Y

Ref.No.	Part No.	Description
Q205	8-729-321-26	TRANSISTOR 2SA1670-Y
Q206	8-729-620-05	TRANSISTOR 2SC2603-EF
Q303	8-729-194-57	TRANSISTOR 2SC945-P
Q304	8-729-321-29	TRANSISTOR 2SC4385-Y
Q305	8-729-321-26	TRANSISTOR 2SA1670-Y
Q306	8-729-620-05	TRANSISTOR 2SC2603-EF
Q403	8-729-194-57	TRANSISTOR 2SC945-P
Q404	8-729-321-29	TRANSISTOR 2SC4385-Y
Q405	8-729-321-26	TRANSISTOR 2SA1670-Y
Q406	8-729-620-05	TRANSISTOR 2SC2603-EF
Q503	8-729-620-05	TRANSISTOR 2SC2603-EF
Q504	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q505	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q506	8-729-620-05	TRANSISTOR 2SC2603-EF
Q507	8-729-923-20	TRANSISTOR 2SA1515R
Q508	8-729-900-61	TRANSISTOR DTA114ES
Q551	8-729-620-05	TRANSISTOR 2SC2603-EF
Q552	8-729-207-89	TRANSISTOR 2SA1358-Y
Q553	8-729-620-05	TRANSISTOR 2SC2603-EF
Q554	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q555	8-729-194-57	TRANSISTOR 2SC945-P
Q556	8-729-194-57	TRANSISTOR 2SC945-P
Q557	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q558	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q559	8-729-321-86	TRANSISTOR 2SC3852
Q560	8-729-321-86	TRANSISTOR 2SC3852
Q561	8-729-822-55	TRANSISTOR 2SD1669-R
Q562	8-729-822-55	TRANSISTOR 2SD1669-R
Q563	8-729-822-55	TRANSISTOR 2SD1669-R
Q564	8-729-822-55	TRANSISTOR 2SD1669-R
Q565	8-729-822-55	TRANSISTOR 2SD1669-R
Q566	8-729-822-55	TRANSISTOR 2SD1669-R
R101	1-247-713-11	CARBON 1K 5% 1/4W
R102	1-249-433-11	CARBON 22K 5% 1/4W
R105	1-249-442-11	CARBON 510 5% 1/4W
R107	1-247-713-11	CARBON 1K 5% 1/4W
R110	1-247-848-11	CARBON 5.1K 5% 1/4W
R111	1-249-421-11	CARBON 2.2K 5% 1/4W
R112	1-249-438-11	CARBON 56K 5% 1/4W
R113	1-249-426-11	CARBON 5.6K 5% 1/4W
R114	1-249-421-11	CARBON 2.2K 5% 1/4W
R115	1-249-438-11	CARBON 56K 5% 1/4W
R116	1-249-417-11	CARBON 1K 5% 1/4W
R117	1-247-899-11	CARBON 680K 5% 1/4W
R118	1-249-426-11	CARBON 5.6K 5% 1/4W
R119	1-247-844-11	CARBON 3.6K 5% 1/4W
R120	1-249-393-11	CARBON 10 5% 1/4W
R121	1-249-393-11	CARBON 10 5% 1/4W
R122	1-219-130-11	RES,METAL PLATE 0.1X2 3W
R123	1-249-417-11	CARBON 1K 5% 1/4W
R124	1-249-431-11	CARBON 15K 5% 1/4W
R125	1-249-421-11	CARBON 2.2K 5% 1/4W
R126	1-215-857-11	METAL OXIDE 10 5% 1W
R127	1-215-857-11	METAL OXIDE 10 5% 1W
R128	1-247-895-00	CARBON 470K 5% 1/4W
R129	1-247-895-00	CARBON 470K 5% 1/4W

Ref.No.	Part No.	Description			
R201	1-247-713-11	CARBON	1K	5%	1/4W
R202	1-249-433-11	CARBON	22K	5%	1/4W
R205	1-249-442-11	CARBON	510	5%	1/4W
R207	1-247-713-11	CARBON	1K	5%	1/4W
R210	1-247-848-11	CARBON	5.1K	5%	1/4W
R211	1-249-421-11	CARBON	2.2K	5%	1/4W
R212	1-249-438-11	CARBON	56K	5%	1/4W
R213	1-249-426-11	CARBON	5.6K	5%	1/4W
R214	1-249-421-11	CARBON	2.2K	5%	1/4W
R215	1-249-438-11	CARBON	56K	5%	1/4W
R216	1-249-417-11	CARBON	1K	5%	1/4W
R217	1-247-899-11	CARBON	680K	5%	1/4W
R218	1-249-426-11	CARBON	5.6K	5%	1/4W
R219	1-247-844-11	CARBON	3.6K	5%	1/4W
R220	1-249-393-11	CARBON	10	5%	1/4W
R221	1-249-393-11	CARBON	10	5%	1/4W
R222	1-219-130-11	RES,METAL PLATE 0.1X2			3W
R223	1-249-417-11	CARBON	1K	5%	1/4W
R224	1-249-431-11	CARBON	15K	5%	1/4W
R225	1-247-717-11	CARBON	2.2K	5%	1/4W
R226	1-215-857-11	METAL OXIDE	10	5%	1W
R227	1-215-857-11	METAL OXIDE	10	5%	1W
R228	1-247-895-00	CARBON	470K	5%	1/4W
R229	1-247-895-00	CARBON	470K	5%	1/4W
R301	1-247-713-11	CARBON	1K	5%	1/4W
R302	1-249-433-11	CARBON	22K	5%	1/4W
R305	1-249-442-11	CARBON	510	5%	1/4W
R307	1-247-713-11	CARBON	1K	5%	1/4W
R310	1-247-848-11	CARBON	5.1K	5%	1/4W
R311	1-249-421-11	CARBON	2.2K	5%	1/4W
R312	1-249-438-11	CARBON	56K	5%	1/4W
R313	1-249-426-11	CARBON	5.6K	5%	1/4W
R314	1-249-421-11	CARBON	2.2K	5%	1/4W
R315	1-249-438-11	CARBON	56K	5%	1/4W
R316	1-249-417-11	CARBON	1K	5%	1/4W
R317	1-247-899-11	CARBON	680K	5%	1/4W
R318	1-249-426-11	CARBON	5.6K	5%	1/4W
R319	1-247-844-11	CARBON	3.6K	5%	1/4W
R320	1-249-393-11	CARBON	10	5%	1/4W
R321	1-249-393-11	CARBON	10	5%	1/4W
R322	1-219-130-11	RES,METAL PLATE 0.1X2			3W
R323	1-249-417-11	CARBON	1K	5%	1/4W
R324	1-249-431-11	CARBON	15K	5%	1/4W
R325	1-249-421-11	CARBON	2.2K	5%	1/4W
R326	1-215-857-11	METAL OXIDE	10	5%	1W
R327	1-215-857-11	METAL OXIDE	10	5%	1W
R328	1-247-895-00	CARBON	470K	5%	1/4W
R329	1-247-895-00	CARBON	470K	5%	1/4W
R401	1-247-713-11	CARBON	1K	5%	1/4W
R402	1-249-433-11	CARBON	22K	5%	1/4W
R405	1-249-442-11	CARBON	510	5%	1/4W
R407	1-247-713-11	CARBON	1K	5%	1/4W
R410	1-247-848-11	CARBON	5.1K	5%	1/4W
R411	1-249-421-11	CARBON	2.2K	5%	1/4W
R412	1-249-438-11	CARBON	56K	5%	1/4W
R413	1-249-426-11	CARBON	5.6K	5%	1/4W
R414	1-249-421-11	CARBON	2.2K	5%	1/4W

Ref.No.	Part No.	Description			
R415	1-249-438-11	CARBON	56K	5%	1/4W
R416	1-249-417-11	CARBON	1K	5%	1/4W
R417	1-247-899-11	CARBON	680K	5%	1/4W
R418	1-249-426-11	CARBON	5.6K	5%	1/4W
R419	1-247-844-11	CARBON	3.6K	5%	1/4W
R420	1-249-393-11	CARBON	10	5%	1/4W
R422	1-219-130-11	RES,METAL PLATE 0.1X2			3W
R421	1-249-393-11	CARBON	10	5%	1/4W
R423	1-249-417-11	CARBON	1K	5%	1/4W
R424	1-249-431-11	CARBON	15K	5%	1/4W
R425	1-249-421-11	CARBON	2.2K	5%	1/4W
R426	1-215-857-11	METAL OXIDE	10	5%	1W
R427	1-215-857-11	METAL OXIDE	10	5%	1W
R428	1-247-895-00	CARBON	470K	5%	1/4W
R429	1-247-895-00	CARBON	470K	5%	1/4W
R506	1-249-405-11	CARBON	100	5%	1/4W
R507	1-246-461-11	CARBON	330	5%	1/4W
R508	1-249-419-11	CARBON	1.5K	5%	1/4W
R509	1-249-429-11	CARBON	10K	5%	1/4W
R510	1-249-429-11	CARBON	10K	5%	1/4W
R511	1-249-405-11	CARBON	100	5%	1/4W
R512	1-247-706-11	CARBON	330	5%	1/4W
R513	1-249-419-11	CARBON	1.5K	5%	1/4W
R514	1-249-425-11	CARBON	4.7K	5%	1/4W
R515	1-247-724-11	CARBON	8.2K	5%	1/4W
R516	1-249-433-11	CARBON	22K	5%	1/4W
R517	1-249-434-11	CARBON	27K	5%	1/4W
R518	1-249-424-11	CARBON	3.9K	5%	1/4W
R519	1-249-425-11	CARBON	4.7K	5%	1/4W
R520	1-249-435-11	CARBON	33K	5%	1/4W
R522	1-247-895-00	CARBON	470K	5%	1/4W
R523	1-249-422-11	CARBON	2.7K	5%	1/4W
R524	1-249-417-11	CARBON	1K	5%	1/4W
R525	1-249-425-11	CARBON	4.7K	5%	1/4W
R526	1-247-713-11	CARBON	1K	5%	1/4W
R532	1-249-429-11	CARBON	10K	5%	1/4W
R533	1-249-429-11	CARBON	10K	5%	1/4W
R534	1-247-903-00	CARBON	1M	5%	1/4W
R535	1-249-419-11	CARBON	1.5K	5%	1/4W
R536	1-249-422-11	CARBON	2.7K	5%	1/4W
R551	1-249-424-11	CARBON	3.9K	5%	1/4W
R552	1-249-421-11	CARBON	2.2K	5%	1/4W
R553	1-249-423-11	CARBON	3.3K	5%	1/4W
R554	1-249-417-11	CARBON	1K	5%	1/4W
R555	1-249-426-11	CARBON	5.6K	5%	1/4W
R556	1-249-433-11	CARBON	22K	5%	1/4W
R557	1-249-433-11	CARBON	22K	5%	1/4W
R558	1-247-896-11	CARBON	510K	5%	1/4W
R559	1-249-405-11	CARBON	100	5%	1/4W
R560	1-249-429-11	CARBON	10K	5%	1/4W
R561	1-249-429-11	CARBON	10K	5%	1/4W
R562	1-249-423-11	CARBON	3.3K	5%	1/4W
R563	1-249-438-11	CARBON	56K	5%	1/4W
R564	1-249-441-11	CARBON	100K	5%	1/4W
R565	1-247-874-11	CARBON	62K	5%	1/4W
R566	1-249-429-11	CARBON	10K	5%	1/4W
R567	1-249-432-11	CARBON	18K	5%	1/4W

Ref.No.	Part No.	Description			
R568	1-249-438-11	CARBON	56K	5%	1/4W
R569	1-249-438-11	CARBON	56K	5%	1/4W
R570	1-249-417-11	CARBON	1K	5%	1/4W
R571	1-249-417-11	CARBON	1K	5%	1/4W
R572	1-249-414-11	CARBON	560	5%	1/4W
R573	1-249-414-11	CARBON	560	5%	1/4W
R574	1-249-412-11	CARBON	390	5%	1/4W
R575	1-249-412-11	CARBON	390	5%	1/4W
R576	1-249-426-11	CARBON	5.6K	5%	1/4W
R577	1-249-426-11	CARBON	5.6K	5%	1/4W
R578	1-249-428-11	CARBON	8.2K	5%	1/4W
R579	1-249-428-11	CARBON	8.2K	5%	1/4W
R580	1-247-722-11	CARBON	5.6K	5%	1W
R581	1-247-722-11	CARBON	5.6K	5%	1W
R582	1-216-349-00	METAL OXIDE	1	5%	1W
R583	1-216-349-00	METAL OXIDE	1	5%	1W
R584	1-216-349-00	METAL OXIDE	1	5%	1W
R585	1-216-349-00	METAL OXIDE	1	5%	1W
R586	1-216-349-00	METAL OXIDE	1	5%	1W
R587	1-216-349-00	METAL OXIDE	1	5%	1W
R588	1-215-857-11	METAL OXIDE	10	5%	1W
R589	1-215-857-11	METAL OXIDE	10	5%	1W
R590	1-215-857-11	METAL OXIDE	10	5%	1W
R591	1-215-857-11	METAL OXIDE	10	5%	1W
R592	1-215-857-11	METAL OXIDE	10	5%	1W
R593	1-215-857-11	METAL OXIDE	10	5%	1W
RV501	1-238-826-11	RES, VAR, CARBON 10K			
RV502	1-238-826-11	RES, VAR, CARBON 10K			
RY501	1-515-766-11	RELAY			
RY502	1-515-766-11	RELAY			
S501	1-572-147-11	SWITCH, SLIDE (2CH/3CH/4CH)			
T551	1-449-865-11	TRANSFORMER, POWER			
TH501	1-808-877-11	THERMISTOR			
TH502	1-800-427-00	POSISTOR			

ACCESSORY & PACKING MATERIAL

3-395-839-12	SCREW (DIA. 5), TAPPING
*3-395-860-01	INDIVIDUAL CARTON
*3-395-862-01	CUSHION (MAIN)
*3-395-863-01	CUSHION (LID)
*3-395-864-01	SHEET, PROTECTION
*3-701-620-00	(AEP,E)...BAG, POLYETHYLENE
*3-704-282-01	BAG (STANDARD), PROTECTION
3-706-714-00	(AEP,E)....GROMMET
3-750-928-11	(AEP,E).....MANUAL, INSTRUCTION
3-750-928-21	(US,Canadian)...MANUAL, INSTRUCTION
3-750-928-41	(AEP,E).....MANUAL, INSTRUCTION
3-750-928-51	(AEP,E).....MANUAL, INSTRUCTION

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